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(74) Agents: ESTREEN, Lars et al.; KRANSELL & WENNBORG AB, Box 27834, S-SE-115 93 STOCKHOLM (SE).

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(71) Applicant (for all designated States except US): AMC CENTURION AB [SE/SE]; Box 500, S-184 25 ÅKERSBERGA (SE).

(72) Inventor; and

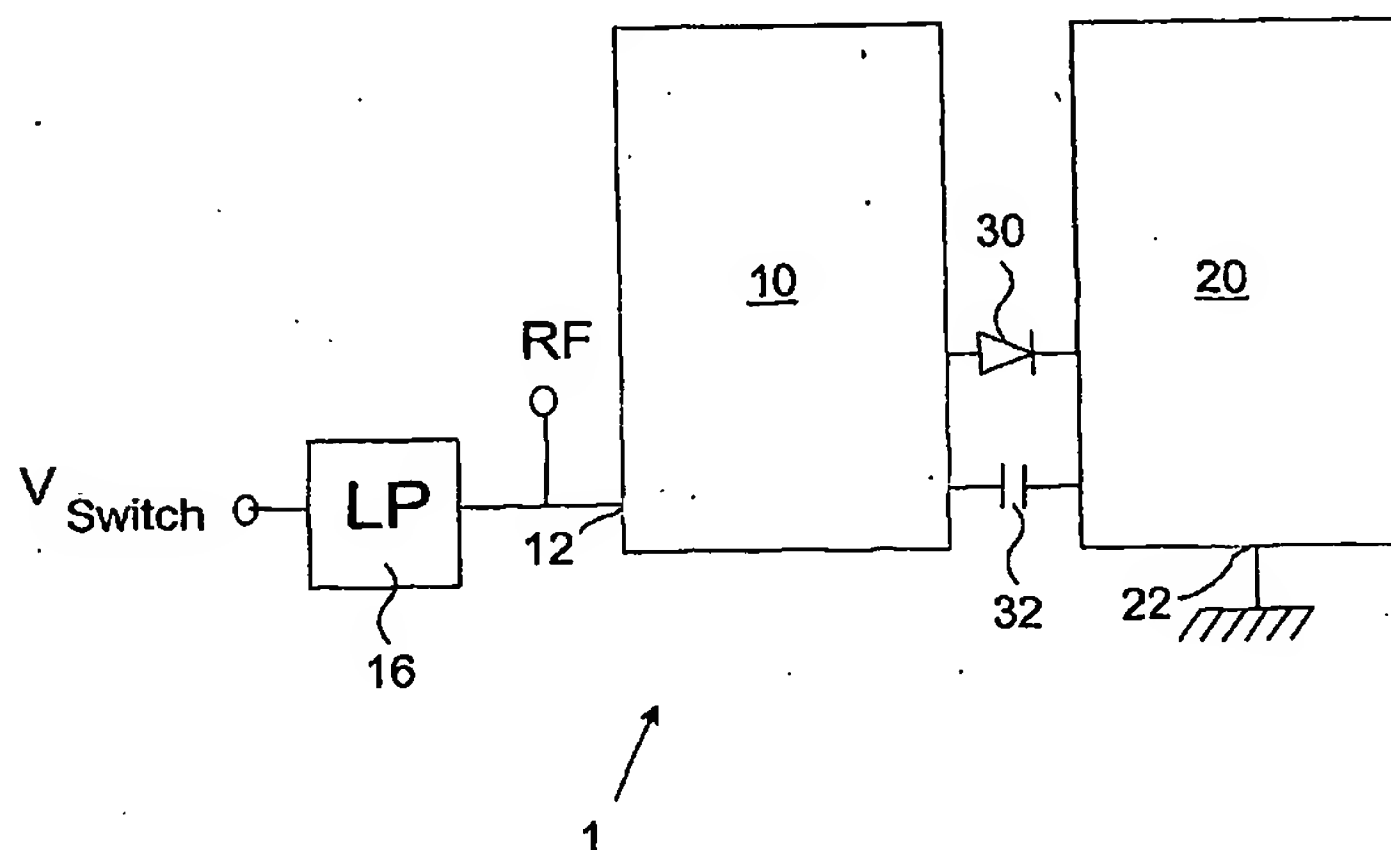
(75) Inventor/Applicant (for US only): THORNELL-PERS, Anders [SE/SE]; Strossarvägen 10, S-184 70 ÅKERSBERGA (SE).

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(54) Title: ANTENNA DEVICE AND PORTABLE RADIO COMMUNICATION DEVICE COMPRISING SUCH AN ANTENNA DEVICE



(57) Abstract: An antenna device for a portable radio communication device operable in at least a first and a second frequency band, and comprising a first electrically conductive planar radiating element (10) having a feeding portion (12) connectable to a feed device (RF) of the radio communication device, and a second electrically conductive planar radiating element (20) having a feed device (RF) of the radio communication device, and a second electrically conductive planar radiating element (20) having a grounding portion connectable to ground. A controllable switch (30) is arranged between the first and second radiating elements, wherein the state of the switch being controlled by means of a selectively interconnecting and disconnecting the radiating elements, wherein the state of the switch being controlled by means of a control voltage input (VSwitch). A first filter (16) is arranged between the feeding portion and the control voltage input, wherein the first filter is arranged to block radio frequency signals. By providing a high pass filter (32) between the first and second generally planar radiating elements provided above a ground plane, quad-band operation is provided with high efficiency in a physically small antenna device.

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